Pneumatic-Controller PCB

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1 General

In case of repair, replace the complete Pneumatic-Controller PCB. After replacement, install the device software on the Pneumatic-Controller PCB.

Electrostatic discharge may damage electrostatic sensitive devices. When handling electrostatic sensitive devices, use a static-dissipative mat and a static dissipative wrist strap.

Risk of burns when operating the system with the rear panel (heat sink) disassembled. Do not operate the device for longer periods of time with the rear panel removed.

2 Power supply

X2			
Pin	Assignment	Pin	Assignment
6c	+15 V	11c	AGND
7c	-15 V	12c	DGND
8c	+24 V		
14c	+5 V		

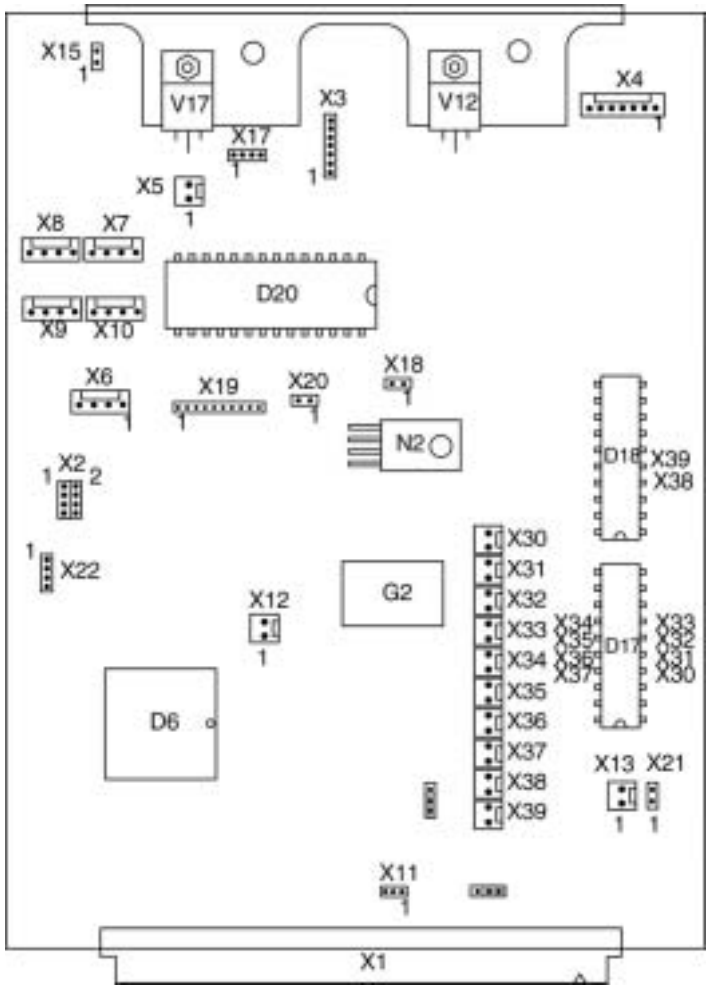

Fig. 1 Pneumatic-Controller PCB

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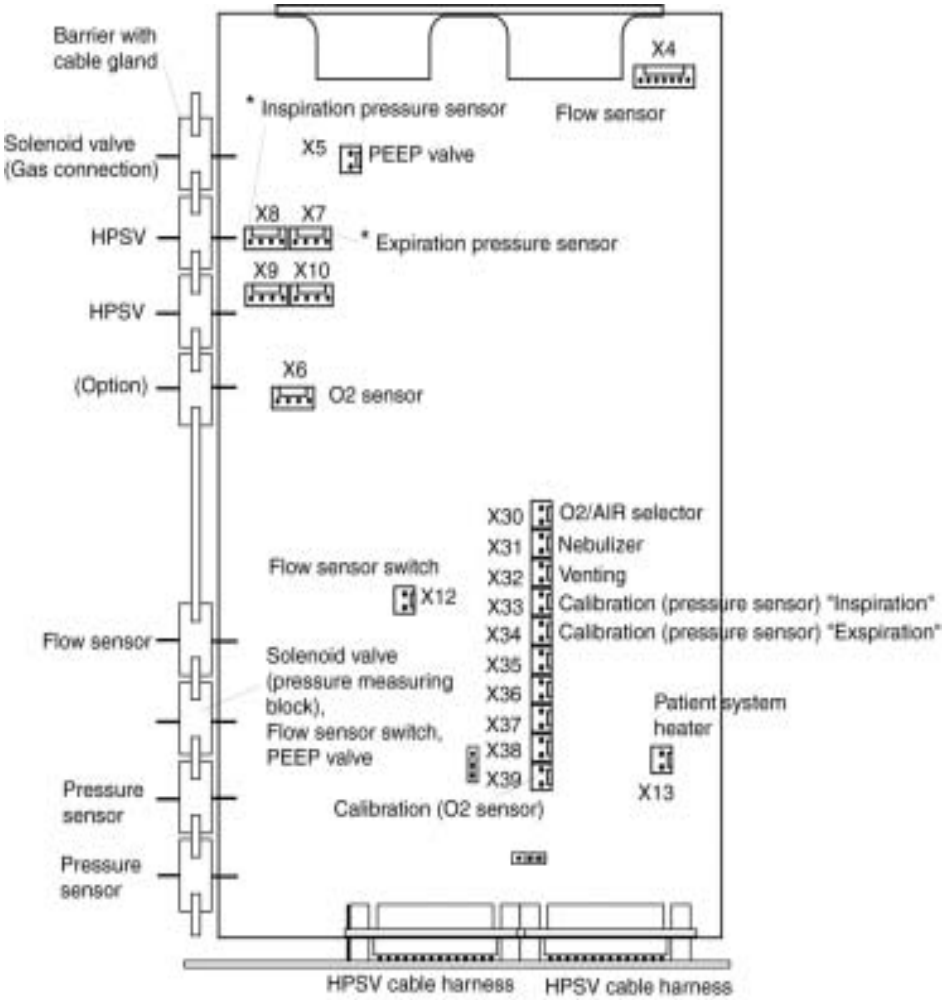

Fig. 2 Pneumatic-Controller PCB; connections

3 Replacing the Pneumatic-Controller PCB

1 Switch off the device.

2 Unplug the power plug of the device from the socket-outlet.

Electrostatic discharge may damage electrostatic sensitive devices. When handling electrostatic sensitive devices, use a static-dissipative mat and a static dissipative wrist strap.

3 Create ESD conditions.

4 Remove the screws (Fig. 3/1).

5 Remove the screws (Fig. 3/2).

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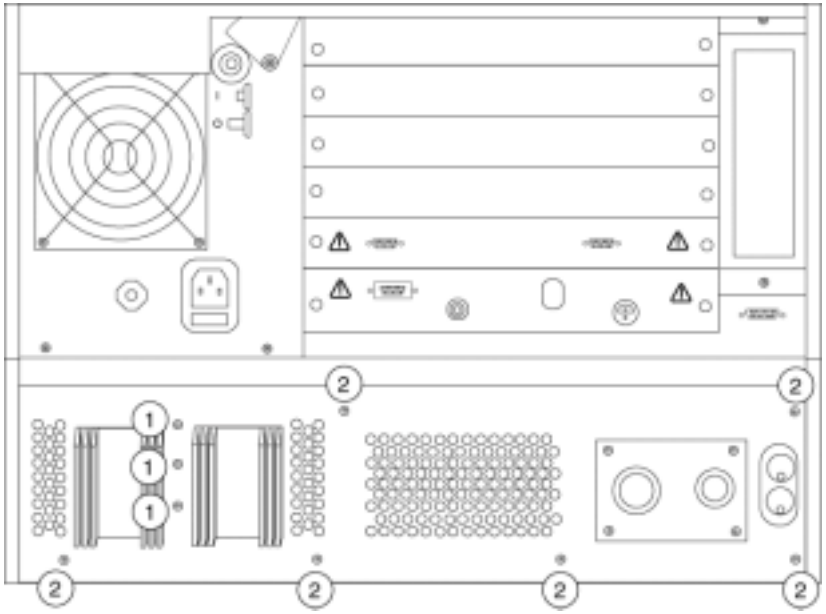

Fig. 3 Rear view of the device

6 Remove the rear panel of the pneumatic assembly and put it aside.

7 Remove the faulty Pneumatic-Controller PCB (Fig. 4) from the device.

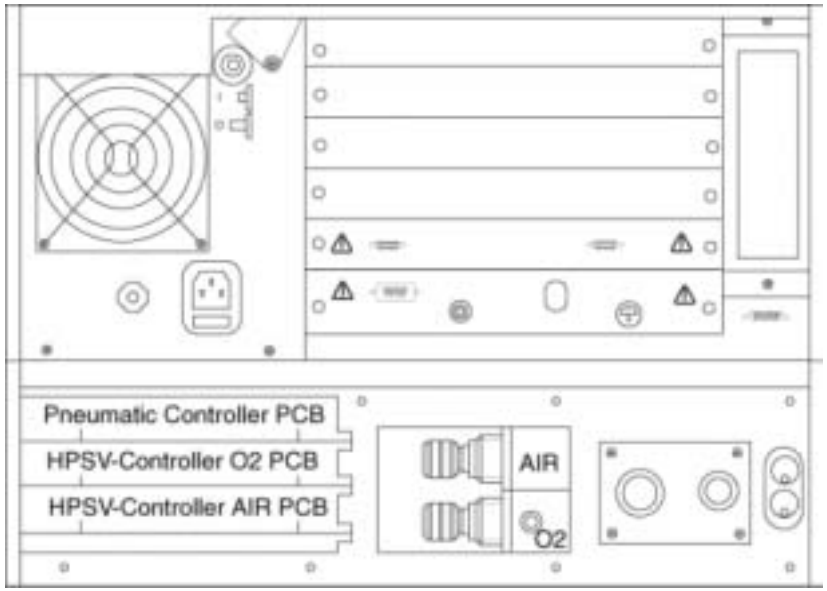

Fig. 4 Rear view of the device (with open pneumatic assembly)

A faulty Pneumatic-Controller PCB is special waste. Dispose of a faulty Pneumatic-Controller PCB according to applicable waste disposal regulations.

8 Dispose of the faulty Pneumatic-Controller PCB according to applicable waste disposal regulations.

9 Push the new Pneumatic-Controller PCB into the device.

10 Secure the rear panel to the device using the screws (Fig. 5/1 and 2).

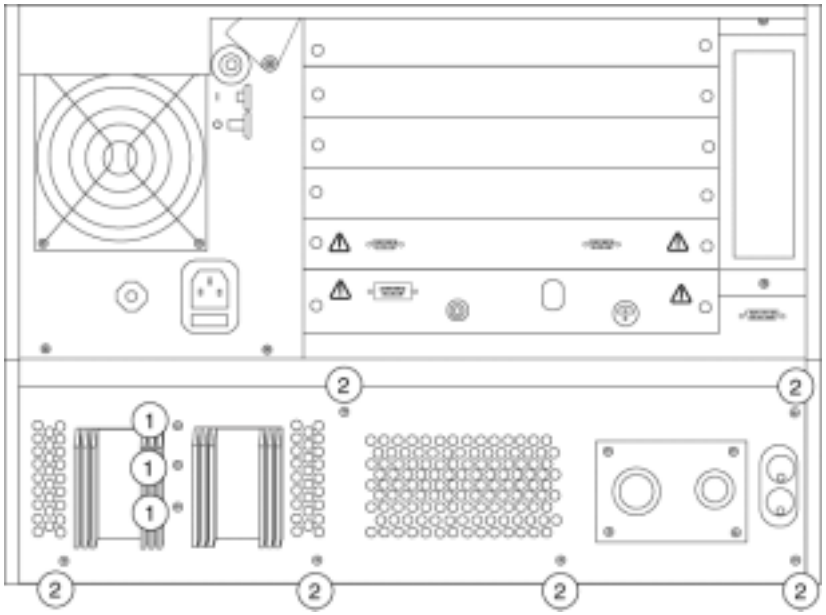

Fig. 5 Rear view of the device

11 Install the respective Pneumatic-Controller PCB software.

12 Calibrate the PEEP/PIP valve, see chapter “Repair Instructions”, section “PEEP/PIP valve”.

13 Perform “electrical safety tests” and “function tests” as described in the PMS procedure. For the USA and Canada: test according to CAN/CSA-22.2 No. 601.1-M90.

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